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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/546,833	04/11/2000	Brian Mitchell Bass	RAL9-00-042	4516
25299 75	590 07/31/2003			
IBM CORPORATION PO BOX 12195 DEPT 9CCA, BLDG 002 RESEARCH TRIANGLE PARK, NC 27709			EXAMINER	
			WAXMAN, ANDREW	
RESEARCH TRIANGLE PARK, NC		27709	ART UNIT	PAPER NUMBER
			2667	<i>(</i> -
			DATE MAILED: 07/31/2003	ك

Please find below and/or attached an Office communication concerning this application or proceeding.

5,404,469 5640588 5828895

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Office Action Summary		Application No.	Applicant(s)			
		09/546,833	BASS ET AL.			
		Examiner	Art Unit			
		Andrew M Waxman	2667			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing indicated part of the provided part of the mailing indicated part of the provided part of the mailing indicated part of the provided par	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nety filed s will be considered timety. the mailing date of this communication. D (35 U.S.C. 8 133).			
1)	Responsive to communication(s) filed on	<u> </u>				
2a) <u></u> □	This action is FINAL . 2b)⊠ Thi	is action is non-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	Claim(s) 1-18 is/are pending in the application					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠	Claim(s) <u>8-18</u> is/are allowed.	·	•			
6)⊠	Claim(s) 1.2 and 5 is/are rejected.					
7)⊠	Claim(s) 3,4,6 and 7 is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) 🗌 .	The specification is objected to by the Examine	r.	·			
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment	t(s)					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	/ (PTO-413) Paper No(s) Patent Application (PTO-152)			
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DETAILED ACTION

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Hassell et al. (US Patent No. 6,208,650 B1) hereinafter referred to as Hassell.

Regarding claim 1, Hassell discloses a network switching system (FIG. 3) including an ingress processor (110) and egress processor (120) (see col. 6 lines 27-35). Hassell further discloses forming a header (pointer) at the ingress processor (see col. 6 lines 60-63), for each frame, identifying a beginning of a processing sequence (see col. 6 lines 53-63) for the egress processor and decoding the header (pointer) into a starting address in a hardware frame classifier (OHPB 122).

Regarding claim 5, Hassell discloses all of the limitations as recited above with respect to claim1. It is further inherent to Hassell that multiple frames would have to be transmitted through multiple ports if the frame contained multicast data.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hassell.

Regarding claim 2, Hassell discloses all of the limitations as recited above with respect to claim 1.

Hassell does not disclose the header including control information which distinguishes the frames as being multicast or unicast.

At the time the invention was made it would have been obvious to one of ordinary skill in the art to include control information identifying the frame as multicast or unicast into the invention as disclosed by Hassel. Although Hassell does not expressly state that this information is contained in the header generated at the ingress processor, Hassell discloses generating a header (pointer) which includes a starting processing address in the memory for the egress processor, this address including frame information. It is inherent that this location would have to include identifying the frame as multicast or unicast to facilitate transmission.

One of ordinary skill in the art would have been motivated to do this in order to clearly identify a multicast or unicast transmission frame improving the efficiency of the system by reducing the improper identification of frames.

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Allowable Subject Matter

Claims 3, 4, 6, and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 8-18 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sun discloses anarchitecture of data communications switching system and associated method.

Wilford discloses an enhanced internet packet routing lookup.

Hebb discloses a logical multicasting method and apparatus.

Walker discloses a routing switch.

Almulhem discloses a supertrunking for packet switching.

Mills discloses a processing system with pointer-based ATM segmentation and reassembly.

Bass discloses multicast frame support in hardware routing assist.

Tappan discloses use of a ginle data structure for label forwarding and imposition.

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All, Jr. discloses a network switch using network processor and methods.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew M Waxman whose telephone number is (703) 305-8086. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (703) 305-4378. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Andrew M. Waxman July 24, 2003

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